

GILA RIVER BASIN

0944500 SAN FRANCISCO RIVER AT CLIFTON, AZ

LOCATION--Lat 33° 02'58", long 109° 17'43", in SW_{1/4}SE_{1/4} sec. 30, T.4 S., R.30 E., Greenlee County, Hydrologic Unit 15040004, on downstream side of right pier at Railroad Boulevard Bridge (U.S. Highway 191), at Clifton, 9.9 mi upstream from mouth.

DRAINAGE AREA--2,766 mi², of which 2 mi² is noncontributing.

PERIOD OF RECORD--Oct. 1910 to Mar. 1911, July 1911 to June 1912, Sept. 1912, Nov. 1912 to Mar. 1913, May 1913 to July 1918, July 1927 to current year. Monthly discharge only for some periods, published in WSP 1313. Published as "San Francisco River at dam above Clifton" in 1911 and under both names in 1912.

REVISED RECORDS--WSP 1049: 1911, 1913-15, 1917. WSP 1283: Drainage area. WSP 1313: 1927-30(M), 1932(M), 1934(M). WRD Ariz. 1972: 1917(M).

GAGE--Water-stage recorder. Datum of gage is 3,436.16 ft above sea level. See WSP 1713 or 1733 for history of changes prior to Apr. 7, 1959. Apr. 7, 1959, to Mar. 23, 1961, at site 1,140 ft downstream at datum 5.37 ft lower. July 18, 1980 to July 28, 1983, supplementary water-stage recorder 0.4 mi upstream on right bank at same datum and June 15, 1981, to Sept. 30, 1983, crest-stage gages at site. Aug. 4, 1983, to Mar. 1, 1985, supplementary water-stage recorder on right bank at main gage site at same datum, Oct. 1, 1992, at main gage site, at datum 10.00 ft higher.

REMARKS--Records fair, except for estimated daily discharges, which are poor. Diversions for mining, municipal use, and for irrigation of about 2,700 acres above station.

EXTREMES FOR PERIOD OF RECORD--Maximum discharge, 90,900 ft³/s Oct. 2, 1983, gage height, 19.72 ft, from high-water mark, from rating curve extended above 30,000 ft³/s on basis of slope-area measurement at gage height 17.0 ft; minimum daily, 6.1 ft³/s June 21, 1971.

EXTREMES FOR CURRENT YEAR--Peak discharges greater than base discharge of 2,000 ft³/s and (or) maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Sept. 11.....	2345	*7,330	*17.56

Minimum daily discharge, 6.8 ft³/s June 24.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002 DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	43	43	64	74	74	68	58	36	14	9.9	e62	41
2	43	49	62	73	74	69	56	35	15	11	e53	61
3	45	49	60	70	75	69	53	34	14	11	62	57
4	46	47	62	70	78	69	51	29	15	14	84	50
5	48	47	65	74	78	70	54	32	15	16	81	46
6	49	50	65	73	76	71	55	35	14	10	120	42
7	50	51	64	73	75	71	58	36	16	9.7	129	39
8	51	51	64	73	74	68	58	36	17	10	90	41
9	51	52	63	73	74	64	56	34	16	11	104	43
10	47	53	63	74	72	62	53	31	15	9.0	134	41
11	52	54	64	77	71	57	52	32	14	16	124	1930
12	52	54	67	77	72	58	48	31	15	19	91	3640
13	53	56	67	75	72	61	50	31	15	19	67	982
14	48	57	66	74	72	60	49	31	14	17	55	445
15	46	58	66	74	70	60	47	25	14	13	50	291
16	47	59	67	75	69	64	45	26	13	20	46	224
17	45	56	66	81	65	64	46	27	12	30	42	165
18	39	54	66	80	64	65	44	26	10	27	42	132
19	43	55	66	81	66	66	43	25	11	19	46	109
20	45	59	66	80	67	60	43	24	11	22	143	95
21	45	60	67	79	66	63	40	23	11	23	92	84
22	47	60	66	78	66	65	43	23	11	23	66	76
23	50	61	67	77	65	64	42	21	9.6	29	57	69
24	51	59	68	77	64	63	41	21	6.8	91	47	65
25	50	59	68	76	64	63	39	20	7.5	54	43	61
26	50	60	68	75	61	61	37	19	9.0	47	39	60
27	49	61	68	76	61	57	39	18	8.8	43	36	54
28	50	62	67	76	65	57	38	17	9.0	54	38	56
29	49	63	68	76	---	58	38	17	8.1	62	42	56
30	48	64	68	76	---	59	38	17	9.8	82	44	56
31	43	---	69	77	---	59	---	14	---	70	45	---
TOTAL	1475	1663	2037	2344	1950	1965	1414	826	370.6	891.6	2174	9111
MEAN	47.58	55.43	65.71	75.61	69.64	63.39	47.13	26.65	12.35	28.76	70.13	303.7
MAX	53	64	69	81	78	71	58	36	17	91	143	3640
MIN	39	43	60	70	61	57	37	14	6.8	9.0	36	39
AC-FT	2930	3300	4040	4650	3870	3900	2800	1640	735	1770	4310	18070
CFSM	0.02	0.02	0.02	0.03	0.03	0.02	0.02	0.01	0.00	0.01	0.03	0.11
IN.	0.02	0.02	0.03	0.03	0.03	0.03	0.02	0.01	0.00	0.01	0.03	0.12

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1914 - 2002, BY WATER YEAR (WY)

MEAN	230.3	133.1	249.6	295.1	351.6	441.9	324.5	160.7	56.11	99.80	198.1	154.1
MAX	4285	1450	2445	4204	2429	2136	2252	1244	310	657	1360	816
(WY)	1984	1979	1979	1993	1993	1915	1915	1973	1992	1915	1967	1975
MIN	23.3	28.2	33.5	37.0	38.8	43.9	36.3	23.7	11.0	28.5	40.6	21.5
(WY)	1954	1957	1954	1954	1951	1955	1956	1956	1947	1960	1956	1956

SUMMARY STATISTICS FOR 2001 CALENDAR YEAR FOR 2002 WATER YEAR WATER YEARS 1914 - 2002

ANNUAL TOTAL	48415		26221.2									
ANNUAL MEAN		132.6		71.84					222.1			
HIGHEST ANNUAL MEAN									937		1915	
LOWEST ANNUAL MEAN									42.0		1951	
HIGHEST DAILY MEAN		751	Apr 7		3640	Sep 12			52200	Oct 2	1983	
LOWEST DAILY MEAN		31	Jul 2		6.8	Jun 24			6.1	Jun 21	1971	
ANNUAL SEVEN-DAY MINIMUM		34	Jul 1		8.4	Jun 23			8.1	Jun 19	1956	
ANNUAL RUNOFF (AC-FT)	96030			52010					160900			
ANNUAL RUNOFF (CFSM)	0.048			0.026					0.080			
ANNUAL RUNOFF (INCHES)	0.65			0.35					1.09			
10 PERCENT EXCEEDS	315			77					433			
50 PERCENT EXCEEDS	73			56					75			
90 PERCENT EXCEEDS	45			15					35			

e Estimated